

## Refine Search

Your wildcard search against 10000 terms has yielded the results below.

***Your result set for the last L# is incomplete.***

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

### Search Results -

Terms	Documents
L25 and (structur\$ same (poi\$ same supplement\$))	0

**Database:**  
 US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

**Search:** L26

### Search History

**DATE:** Tuesday, December 26, 2006    [Purge Queries](#)    [Printable Copy](#)    [Create Case](#)

<u>Set</u> <u>Name</u> <u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
side by side		
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR		
<u>L26</u> L25 and (structur\$ same (poi\$ same supplement\$))	0	<u>L26</u>
<u>L25</u> l22 or l23 or l24	258	<u>L25</u>
DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR		
<u>L24</u> (4954958   5223844   5559707   4819174   5699255   5471392   5543789   5334974   5172321   5208756   5648768)![PN]	11	<u>L24</u>
DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=OR		
<u>L23</u> ("20040158400"   "5802492"   "6321158")![PN]	3	<u>L23</u>
<u>L22</u> ("20040158400"   "5802492"   "6321158")![URPN]	244	<u>L22</u>
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR		

<u>L21</u>	L19 or l12 or l16	3	<u>L21</u>
	<i>DB=PGPB; THES=ASSIGNEE; PLUR=YES; OP=OR</i>		
<u>L20</u>	L19 and structur\$	1	<u>L20</u>
<u>L19</u>	20040158400	1	<u>L19</u>
	<i>DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR</i>		
<u>L18</u>	20040158400	0	<u>L18</u>
<u>L17</u>	L16 and (poi\$ same supp\$)	1	<u>L17</u>
<u>L16</u>	5802492.pn.	1	<u>L16</u>
<u>L15</u>	L12 and cat\$	0	<u>L15</u>
<u>L14</u>	L12 and (poi\$ same supp\$)	1	<u>L14</u>
<u>L13</u>	L12 and (poi\$ same sup\$)	1	<u>L13</u>
<u>L12</u>	6321158.PN.	1	<u>L12</u>
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR</i>		
<u>L11</u>	L10 and suppl\$	3	<u>L11</u>
<u>L10</u>	L7 and (sign\$ and exit\$)	11	<u>L10</u>
<u>L9</u>	L7 and (sign\$ same exit\$)	0	<u>L9</u>
<u>L8</u>	L7 and (sign\$ with exit\$)	0	<u>L8</u>
<u>L7</u>	L6 or L5	63	<u>L7</u>
<u>L6</u>	L2 and @pd<=20030204	27	<u>L6</u>
<u>L5</u>	L2 and @ad<=20030204	62	<u>L5</u>
<u>L4</u>	L2 and @ad<=02042003	0	<u>L4</u>
<u>L3</u>	L2 and @ad<=10192005	0	<u>L3</u>
<u>L2</u>	L1 and (search\$ with poi\$)	189	<u>L2</u>
<u>L1</u>	navigat\$ and map\$ and poi	688	<u>L1</u>

END OF SEARCH HISTORY

[First Hit](#)[Fwd Refs](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#) [Generate Collection](#) [Print](#)

L27: Entry 1 of 3

File: USPT

Nov 20, 2001

US-PAT-NO: 6321158

DOCUMENT-IDENTIFIER: US 6321158 B1

TITLE: Integrated routing/mapping information

DATE-ISSUED: November 20, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DeLorme; David M.	Yarmouth	ME		
Gray; Keith A.	Yarmouth	ME		
Autry; Gordon	Standish	ME		
Moulton; Keith A.	Portland	ME		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
DeLorme Publishing Company	Yarmouth	ME			02

APPL-NO: 09/144836 [PALM]

DATE FILED: August 31, 1998

## PARENT-CASE:

CROSS REFERENCE TO RELATED PATENT APPLICATION This patent application is a continuation-in-part (CIP) of the David M. DeLorme et al U.S. patent application Ser. No. 08/661,600 filed Jun. 11, 1996, for COMPUTER AIDED ROUTING AND POSITIONING SYSTEM, now U.S. Pat. No. 5,802,492, issued Sep. 1, 1998, which is a CIP of U.S. patent application Ser. No. 08/381,214 filed Jan. 31, 1995 for COMPUTER AIDED ROUTING SYSTEM, now U.S. Pat. No. 5,559,707, issued Sep. 24, 1996, which is a CIP of the David M. DeLorme et al U.S. patent application Ser. No. 08/265,327 filed Jun. 24, 1994 for COMPUTER AIDED MAP LOCATION SYSTEM, now abandoned, and the contents of these related patent applications are incorporated herein by reference.

INT-CL-ISSUED: [07] G01C 21/30

## INT-CL-CURRENT:

TYPE IPC	DATE
CIPS <u>G01 C 21/34</u>	20060101
CIPS <u>G01 C 21/36</u>	20060101
CIPS <u>G06 Q 10/00</u>	20060101
CIPS <u>G09 B 29/10</u>	20060101
CIPS <u>G08 G 1/0969</u>	20060101

US-CL-ISSUED: 701/201; 701/209, 701/211, 340/995, 342/357.09

US-CL-CURRENT: 701/201; 340/995.16, 342/357.09, 701/209, 701/211

FIELD-OF-CLASSIFICATION-SEARCH: 701/201, 701/200, 701/202, 701/208, 701/209, 701/211, 701/210, 701/212, 701/213, 340/988, 340/990, 340/995, 342/357.06, 342/357.07, 342/357.09, 342/357.13, 342/357.1  
See application file for complete search history.

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

Search Selected     Search ALL     Clear

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4819174</u>	April 1989	Furuno et al.	701/201
<input type="checkbox"/> <u>4954958</u>	September 1990	Savage et al.	701/201
<input type="checkbox"/> <u>5172321</u>	December 1992	Ghaem et al.	701/201
<input type="checkbox"/> <u>5223844</u>	June 1993	Mansell et al.	342/357
<input type="checkbox"/> <u>5334974</u>	August 1994	Simms et al.	340/990
<input type="checkbox"/> <u>5471392</u>	November 1995	Yamashita	701/200
<input type="checkbox"/> <u>5543789</u>	August 1996	Behr et al.	340/995
<input type="checkbox"/> <u>5648768</u>	July 1997	Bouve	340/988
<input type="checkbox"/> <u>5699255</u>	December 1997	Ellis et al.	701/212

ART-UNIT: 361

PRIMARY-EXAMINER: Nguyen; Tan

ATTY-AGENT-FIRM: Atwood; Peirce Caseiro; Chris A. Scanlan; Patrick R.

## ABSTRACT:

An Integrated Routing/Mapping Information System (IRMIS) links desktop personal computer cartographic applications to one or more handheld organizer, personal digital assistant (PDA) or "palmtop" devices. Such devices may be optionally equipped with, or connected to, portable Global Positioning System (GPS) or equivalent position sensing device. Desktop application facilitates user selection of areas, starts, stops, destinations, maps and/or point and/or route information. It optionally includes supplemental online information, preferably for transfer to the PDA or equivalent device. Users' options include route information, area, and route maps. Maps and related route information are configured with differential detail and levels of magnitude. Used in the field, in conjunction with GPS receiver, the PDA device is configured to display directions, text and map formats, the user's current position, heading, speed, elevation, and so forth. Audible signals identifying the next turn along the user's planned route are also provided. The user can pan across maps and zoom between two or more map scales, levels of detail, or magnitudes. The IRMIS also provides for "automatic zooming," e.g., to show greater detail or closer detail as the user approaches a destination, or to larger scale and lower resolution to show the user's overall planned route between points of interest. The IRMIS also enables the user to mark or record specific

locations and/or log actual travel routes, using GPS position information. These annotated location marks and/or "breadcrumb" or GPS log data can be saved, uploaded, displayed, or otherwise processed on the user's desktop geographic information or cartographic system. The IRMIS application and data may be distributed online and/or in tangible media in limited and advanced manipulation formats.

28 Claims, 62 Drawing figures

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)

[First Hit](#) [Fwd Refs](#)[Previous Doc](#) [Next Doc](#) [Go to Doc#](#) [Generate Collection](#) [Print](#)

L27: Entry 2 of 3

File: USPT

Sep 1, 1998

US-PAT-NO: 5802492

DOCUMENT-IDENTIFIER: US 5802492 A

TITLE: Computer aided routing and positioning system

DATE-ISSUED: September 1, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DeLorme; David M.	Yarmouth	ME		
Gray; Keith A.	Dresden	ME		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
DeLorme Publishing Company, Inc.	Yarmouth	ME			02

APPL-NO: 08/661600 [PALM]

DATE FILED: June 11, 1996

## PARENT-CASE:

CROSS REFERENCE TO RELATED PATENT APPLICATION This patent application is a continuation-in-part (CIP) of the David M. DeLorme et al U.S. patent application Ser. No. 08/381,214 filed Jan. 31, 1995, now U.S. Pat. No. 5,559,707 for COMPUTER AIDED ROUTING SYSTEM which is a CIP of the David M. DeLorme et al U.S. patent application Ser. No. 08/265,327 filed Jun. 24, 1994, now abandoned for COMPUTER AIDED MAP LOCATION SYSTEM and the contents of these related patent applications are incorporated herein by reference.

INT-CL-ISSUED: [06] G01C 21/00, G08G 1/123

## INT-CL-CURRENT:

TYPE IPC	DATE
CIPS G08 G 1/0969	20060101
CIPS G06 Q 10/00	20060101
CIPS G01 C 21/36	20060101
CIPS G01 C 21/34	20060101
CIPS G09 B 29/10	20060101

US-CL-ISSUED: 701/200; 701/201, 701/208, 701/211, 701/213, 340/990, 340/995

US-CL-CURRENT: 455/456.5; 340/990, 340/995.23, 340/995.24, 701/201, 701/208,  
701/211, 701/213FIELD-OF-CLASSIFICATION-SEARCH: 364/443, 364/444.1, 364/444.2, 364/449.2,  
364/449.3, 364/449.4, 364/449.5, 364/449.6, 364/449.7, 340/990, 340/995, 340/991,  
340/993, 342/357, 342/457

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

[Search Selected](#) | [Search ALL](#) | [Clear](#)

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <a href="#">5208756</a>	May 1993	Song	364/449.1
<input type="checkbox"/> <a href="#">5543789</a>	August 1996	Behr et al.	340/995
<input type="checkbox"/> <a href="#">5559707</a>	September 1996	DeLorme et al.	364/443

ART-UNIT: 364

PRIMARY-EXAMINER: Nguyen; Tan Q.

ATTY-AGENT-FIRM: Caseiro; Chris A. Bohan; Thomas L.

ABSTRACT:

A Computer Aided Routing and Positioning System (CARPS) determines a route along selected waypoints that include a travel origin and a travel destination and intermediate waypoints therebetween. The selected waypoints may be uploaded to or downloaded from various geocoding devices that utilize the Global Positioning System (GPS). A CARPS database incorporates travel information selected from a range of multimedia sources about the transportation routes, waypoints, and geographically locatable points of interest (POIs) selected by the user along the travel route. The CARPS software permits user selection of specified POI types within a user-defined region of interest and user selection of particular POIs from the selected types within the region of interest. The transportation routes, waypoints, POIs and region of interest are identifiable in the computer by coordinate locations of a selected geographical coordinate system. The CARPS software is constructed to present a user-customized travelog for preview on the computer display of the user-defined travel route. The travel planner can preview on the computer display a multimedia travelog particularly customized for the user-defined travel route including multimedia information on the transportation routes, waypoints, and POIs selected by the user. The user can engage in an iterative trip planning process of revising the route and previewing travelogs of revised travel routes until a satisfactory travel route is determined. Hardcopies of customized travel maps of the user-defined travel route can be used in conjunction with a GPS device which has been uploaded with selected waypoint data.

50 Claims, 35 Drawing figures

[Previous Doc](#)    [Next Doc](#)    [Go to Doc#](#)

[First Hit](#) [Fwd Refs](#)[Previous Doc](#) [Next Doc](#) [Go to Doc#](#)**End of Result Set** [Generate Collection](#) [Print](#)

L27: Entry 3 of 3

File: USPT

Sep 24, 1996

US-PAT-NO: 5559707

DOCUMENT-IDENTIFIER: US 5559707 A

TITLE: Computer aided routing system

DATE-ISSUED: September 24, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DeLorme; David M.	Cumberland	ME		
Gray; Keith A.	Dresden	ME		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
DeLorme Publishing Company	Freeport	ME			02

APPL-NO: 08/381214 [PALM]

DATE FILED: January 31, 1995

## PARENT-CASE:

CROSS REFERENCE TO RELATED PATENT APPLICATION This patent application is a continuation-in-part (CIP) of the David M. DeLorme et al U.S. patent application Ser. No. 08/265,327 filed Jun. 24, 1994 for COMPUTER AIDED MAP LOCATION SYSTEM and the contents of this related patent application are incorporated herein by reference.

INT-CL-ISSUED: [06] G01C 21/00, G08G 1/123

## INT-CL-CURRENT:

TYPE IPC	DATE
CIPS G06 Q 10/00	20060101
CIPS G08 G 1/0969	20060101
CIPS G01 C 21/34	20060101
CIPS G01 C 21/20	20060101
CIPS G09 B 29/10	20060101

US-CL-ISSUED: 364/443; 364/424.02, 364/444, 364/449, 340/990, 340/995

US-CL-CURRENT: 701/200; 340/990, 340/995.24, 701/23, 701/82

FIELD-OF-CLASSIFICATION-SEARCH: 364/443, 444, 448, 424.02, 364/449, 364/407, 342/357, 340/990, 340/995

See application file for complete search history.

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4926336</u>	May 1990	Yamada	364/444
<input type="checkbox"/> <u>4939662</u>	July 1990	Nimura et al.	364/449
<input type="checkbox"/> <u>5231584</u>	July 1993	Nimura et al.	364/444
<input type="checkbox"/> <u>5270937</u>	December 1993	Link et al.	364/449
<input type="checkbox"/> <u>5353034</u>	October 1994	Sato et al.	342/457
<input type="checkbox"/> <u>5377113</u>	December 1994	Shibasaki et al.	364/449

## OTHER PUBLICATIONS

Sciso, "Five Desktop Travel Guides Help You Plan Your Vaction", PC Magazine, Nov. 1993.

Software Product Specification, "Automap Road Atlas for Window (V. 3.0.)", Automap, Inc, 1993.

User Manual of Randy Mc.Nally Trip Maker for Window.

ART-UNIT: 234

PRIMARY-EXAMINER: Teska; Kevin J.

ASSISTANT-EXAMINER: Nguyen; Tan

ATTY-AGENT-FIRM: Kane, Jr.; Daniel H. Caseiro; Chris A. Bohan; Thomas L.

ABSTRACT:

A computer aided routing system (CARS) determines a travel route between a user selected travel origin and travel destination following user selected waypoints along the way. A CARS database incorporates travel information selected from a range of multimedia sources about the transportation routes, waypoints, and geographically locatable points of interest (POIs) selected by the user along the travel route. The CARS software permits user selection of specified POI types within a user defined region of interest and user selection of particular POIs from the selected types within the region of interest. The transportation routes, waypoints, POIs and region of interest are identified in the computer by coordinate locations of a selected geographical coordinate system. The CARS software is constructed to present a user customized travelog for preview on the computer display of the user defined travel route. The travel planner can preview on the computer display a multimedia travelog particularly customized for the user defined travel route including multimedia information on the transportation routes, waypoints, and POIs selected by the user. The user can engage in an iterative trip planning process of revising the route and previewing travelogs of revised travel routes until a satisfactory travel route is determined.

59 Claims, 35 Drawing figures

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)



Application Number

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### IDS Flag Clearance for Application 10769759

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IDS Information

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Content	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
M844	2006-10-26	39	Y <input checked="" type="checkbox"/>	2006-12-26 08:59:20.0	CNguyen1
M844	2004-02-03	10	Y <input checked="" type="checkbox"/>	2004-06-04 11:26:01.0	eburns
<input type="button" value="Update"/>					